AUTODOC CLUB

How to change front wheel bearing on **Mercedes W203** – replacement guide

VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
MERCEDES-BENZ 190 (W201) E 1.8 (201.018), MERCEDES-BENZ 190 (W201) 2.0 (201.022), MERCEDES-BENZ 190 (W201) E 2.0 (201.024), MERCEDES-BENZ 190 (W201) 2.0 (201.023), MERCEDES-BENZ 190 (W201) E 2.0, MERCEDES-BENZ 190 (W201) E 2.3-16, MERCEDES-BENZ 190 (W201) E 2.3-16 (201.034), MERCEDES-BENZ 190 (W201) E 2.3, MERCEDES-BENZ 190 (W201) E 2.3 (201.028), MERCEDES-BENZ 190 (W201) E 2.5-16, MERCEDES-BENZ 190 (W201) E 2.6, MERCEDES-BENZ 190 (W201) D 2.0 (201.122), MERCEDES-BENZ 190 (W201) D 2.5 (201.126), MERCEDES-BENZ 190 (W201) Turbo-D 2.5 (201.128), MERCEDES-BENZ 190 (W201) E Evolution II 2.5, (+ 268)

The steps may slightly vary depending on the car design.

REPLACEMENT: WHEEL BEARING – MERCEDES W203. LIST OF THE TOOLS YOU'LL NEED:

- Wire brush
- WD-40 spray
- Brake cleaner
- All-purpose cleaning spray
- Copper grease
- Multipurpose grease
- Torque wrench
- Combination spanner #32
- HEX bit No.H5
- Drive socket # 12
- Drive socket # E12
- Drive socket # 18
- Torx bit T30
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Impact screwdriver
- Crow bar
- Round-nose pliers
- Bush and bearing driver set
- Hammer
- Rubber mallet
- Vice
- 3-Arm Gear Puller
- Telescoping magnet
- Wheel chock

BUY TOOLS

Replacement: wheel bearing – Mercedes W203. AUTODOC experts recommend:

- Do not re-use the bearing assembly of your Mercedes W203 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- All work should be done with the engine stopped.

REPLACEMENT: WHEEL BEARING – MERCEDES W203. USE THE FOLLOWING PROCEDURE:

1. Open the bonnet. Unscrew the brake fluid reservoir cap.

2. Secure the wheels with chocks.

3. Loosen the wheel mounting bolts. Use wheel impact socket #17.

4

Raise the front of the car and secure on supports.

5

Unscrew the wheel bolts.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. Mercedes W203

6

Remove the wheel.

7

Detach the connector of the brake pad wear sensor. Use round-nose pliers.

8 Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.

9 Unscrew the brake caliper fastening. Use a drive socket #12. Use a ratchet wrench.

10 Spread the brake pads. Use a crowbar.

11 Remove the brake caliper.

Replacement: wheel bearing – Mercedes W203. Professionals recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

12 Remove the brake pads.

13 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

14 Unscrew the caliper bracket fastening. Use a drive socket #18. Use a tap wrench. Use a ratchet wrench.

15 Remove the caliper bracket.

16 Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.

17 Unscrew the brake disc fastening. Use Torx T30. Use an impact screwdriver.

18 Remove the brake disc.

19 Remove the wheel hub nut cap. Use a crowbar. Use a hammer.

Replacement: wheel bearing – Mercedes W203. Tip from AUTODOC:

- In some cars, the wheel hub nut is not protected with a cap.

20 Loosen the wheel hub fastening nut screw. Use HEX No.H5. Use a ratchet wrench.

21 Make a mark on the hub nut.

22 Unscrew the hub nut.

23 Remove the fastening nut.

24 Remove the wheel hub bearing. Use a telescoping magnet.

25 Remove the wheel hub together with the bearing.

26 Grip the wheel hub together with the bearing in a vice.

27 Remove the old O-ring. Use a crowbar.

28 Remove the wheel hub bearing.

29 Loosen the vice and remove the hub.

30 Pull the bearing inner race out of the wheel hub. Use a bush and bearing driver set.

31 Pull the bearing inner race out of the wheel hub. Use 3-Arm Gear Puller. Use a bush and bearing driver set.

32 Clean the hub. Use a wire brush. Use all-purpose cleaning spray.

33

Treat the mounting seat of the bearing assembly. Use a multipurpose grease.

34

Install the inner race of the wheel bearing into the hub. Use a bush and bearing driver set.

35

Treat the mounting seat of the bearing assembly. Use a multipurpose grease.

36

Install the inner race of the wheel bearing into the hub. Use a bush and bearing driver set.

37 Place the hub in the vice.

38 Treat the mounting seat of the bearing assembly. Use a multipurpose grease.

39 Install a new wheel hub bearing.

40 Release the vice and take out the wheel hub together with the bearing.

41 Install the new O-ring. Use a bush and bearing driver set.

42 Clean the fasteners of the brake disc cover. Use a wire brush. Use WD-40 spray.

43 Unscrew the fasteners of the brake disc cover. Use a drive socket #E12. Use a ratchet wrench.

44 Remove the brake disc cover.

45 Clean the wheel hub mounting seat. Use all-purpose cleaning spray.

46 Install the brake disc cover.

47 Screw in the fasteners of the brake disc cover. Use a drive socket #E12. Use a torque wrench. Tighten it to 11 Nm torque.

48 Treat the mounting seat of the bearing assembly. Use a multipurpose grease.

49 Install the new wheel hub together with the bearing.

50 Install a new wheel hub bearing.

51 Install the fastening nut.

Replacement: wheel bearing – Mercedes W203. Tip:

- Insert the hub nut according to the mark.

52 Screw on the hub nut.

53 Install the cap of the hub nut.

54 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.

55 Install the brake disc.

56 Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 9 Nm torque.

57 Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.

AUTODOC recommends:

- Replacement: wheel bearing – Mercedes W203. After applying the spray, wait a few minutes.

58 Install the brake caliper bracket.

59 Tighten the brake caliper bracket. Use a drive socket #18. Use a torque wrench. Tighten it to 115 Nm torque.

60 Install the brake pads.

61 Install the brake caliper and fix it. Use a drive socket #12. Use a torque wrench. Tighten it to 25 Nm torque.

62 Attach the connector of the brake pad wear sensor.

63 Remove the wheel hub nut cap.

64 Install the wheel.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Mercedes W203

65 Screw in the wheel bolts. Use wheel impact socket #17.

66 Adjust the wheel bearing. Use a combination spanner #32.

Replacement: wheel bearing – Mercedes W203. AUTODOC experts recommend:

- Do not apply excessive force when tightening the wheel hub nut. This can damage the tapered roller bearings.

67

Loosen the wheel mounting bolts. Use wheel impact socket #17.

68

Unscrew the wheel bolts.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. Mercedes W203

69

Remove the wheel.

70

Screw in the wheel hub fastening nut screw. Use HEX No.H5. Use a ratchet wrench.

71 Treat the wheel hub bearing. Use a multipurpose grease.

72 Install the cap of the hub nut. Use a rubber mallet. Use a crowbar.

73 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

74 Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- Replacement: wheel bearing – Mercedes W203. After applying the spray, wait a few minutes.

75

Install the wheel.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. Mercedes W203

76

Screw in the wheel bolts. Use wheel impact socket #17.

77

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.

78

Remove the jacks and chocks.

79

Tighten the brake fluid reservoir cap. Close the hood.

WELL DONE!

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